

Product datasheet for **RR212658**

Eogt (NM_001009502) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eogt (NM_001009502) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eogt
Synonyms:	Aer61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212658 representing NM_001009502
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTAATGCTGCTTGTCTTTGGAGTACTGCTTCATGAAGTCCCCTGAGTGCCAGGACGAGGCTCATC
 CTGAGGCTGACAGAGTGCCCGGGAAGCCCTCTATGACTACTCCAGCCTCCGCCTCCAGAGGAGACAT
 TCCTTCTTCTGCACAGTAACAGGCATGTTGCCTCTGTGTGCAGGGAGGATTCCCACTGTCCGTATAAG
 AAACACTTAGAGAGTCTAAATCCTGCTGGGGTATGAGAAGTCTGCACACCAGAGTCTAGATTTGGCT
 CCCCCATTTGCAGCTATGTGGACTTGGGATGGACCACACCCTGGAGTCAGCCCAGGACATGTTCTGGAA
 ACAAGCTGACTTCGATATGCTCGGGAGCGCTGGAGGAGATACGAATGTTCTGCCGCCAGAGAGTGCG
 AGCGACTCAAGTCTGCTTTGCTCTGTTACCTTCAGTATTGTAGAGCTACTGGTCTATACCTGGACTTAA
 GAAACATCAAGAGAAACCATGACAGATTCAAGGAAGATTTCTCAGGGTGGTATATTGGAGGACTG
 TAAACTTGACCGTCATGCACTGGTGTCTGAAGGTCAGCGCAAAGCCCTCTGCAGTCTTGGTTTGTGAG
 CTAACAAGCTACACTCAGCTCAATTTAGGCCTATAGAAGATGCTAAATGTGACATCGTTGTTGAAAAAC
 CAACATATTTTATGAAATTAGATGCAGGTATTAACATGTACCACCACTTTTGTGACTTCTGAATCTCTA
 CCTCACTCAGCACATAAACAATTTCTTTCAGTACAGACGTGTACATTGTATGTCATGTGGGACACCAGCTTAT
 GGATACGGTGACCTCTTCTCTGATACCTGGAAAGCATTACTGACTATGACGTCATACATTTGAAAACT
 ACGATTCAAAAAGGTGTGTTTTAAAGAAGCTGTGTTTTCTGTGCTGCCCGCATGCGGTACGGGCTGTT
 CTATAACAGCCTCTGATCTCTGGCTGTCAGAACACTGGGTTATTCAGGGCTTCTCCAGCACGTGCTG
 CACAGGCTGAACATCTCTCAAGAGGGACCAAGGATGGGAACTCGAGTTACCATTCTTGCACGCAGCA
 CAGAATACCGGAAAACTCTGAACAAAAATGAGCTGGTAAATGCCCTGAAAAACAGTATCCACATTTGAAG
 CCGGGTGGTTGATTACAAGTACAGAGAACCTCGGGTTTTTATAGATCAGCTAAGGATCACGCACAACACGGAC
 ATATTTATCGGCATGCACGGAGCTGGTCTTACCCACTTACTTTTCTTCCAGACTGGGCTGCTGTATTTCG
 AGCTGTACAACCTGTGAGGATGAGCGCTGTACTTAGACCTGGCCAGGCTCAGAGGCATCTACTACATCAC
 CTGGCAGAAGCCAGCAAAGTGTTCCTCAAGATAAGGGGCACCATCCAACCTCTGGGGGAGCACCCGAAG
 TTTACCAACTACTCTTTCGACGTAGAGGAATTCATGTACCTTGTCTGCAGGCTGCAGAACATGTACTGC
 AGCACCCGAGTGGCCGTTGAAGAAGAACCACGATGAACTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212658 representing NM_001009502
 Red=Cloning site Green=Tags(s)

MLMLLVFGVLLHEVPLSGQDEAHPEADRVPEALYDYSSLRLPEEHIPFFLHSNRHVASVCREDSHCPYK
 KHLESLNSCWGYEKSTPESRFGSPICSYVDLWTDLTLESAQDMFWKQADFGYARERLEEIRMFCEPESA
 SDSSLLCSRYLQYCRATGLYDLRNIKRNHDRFKEDFLQGGDIGGYCKLDRHALVSEQRKSPLQSWFAE
 LQGYTQLNFRPIEDAKCDIVVEKPTYFMKLDAGINMYHHFCDFLNLYLTQHINNSFSTDVYIVMWDTSSY
 GYGDLFSDTWKAFDQYDVIHLKTYDSKKVCFKEAVFSLLPRMRYGLFYNTPLISGCQNTGLFRAFSQHV
 HRLNISQEGPKDGKLRVILARSTEYRILNQNELVNALKTVSTFEVRVVDYKYRELGFQDQLRITHNTD
 IFIGMHGAGLTHLLFLPDWAAVFELYNCEDERCYLDLRLRGIYYITWQKPSKVFQDKGHHTLGEHPK
 FTNYSFDVEEFMYLVLQAAEHVLQHPQWPLKKNHDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001009502

ORF Size: 1581 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001009502.1](#), [NP_001009502.1](#)

RefSeq Size: 2142 bp

RefSeq ORF: 1584 bp

Locus ID: 494219

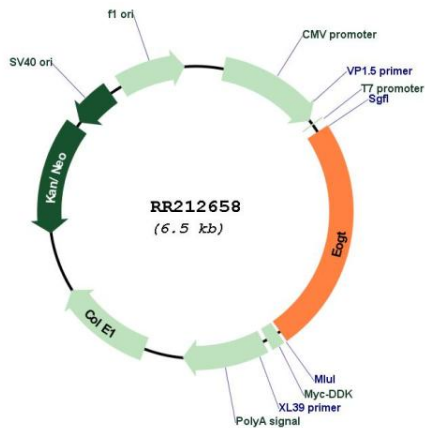
UniProt ID: [Q5NDL0](#)

Cytogenetics: 4q34

MW: 61.5 kDa

Gene Summary: Catalyzes the transfer of a single N-acetylglucosamine from UDP-GlcNAc to a serine or threonine residue in extracellular proteins resulting in their modification with a beta-linked N-acetylglucosamine (O-GlcNAc). Specifically glycosylates the Thr residue located between the fifth and sixth conserved cysteines of folded EGF-like domains.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR212658